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**U.S. Army Corps  
of Engineers  
Coastal and Hydraulics Laboratory**

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# **Minutes of the Executive Session of the Board on Coastal Engineering Research**

**12 November 2009 (Washington, DC)**

Hosted by: U.S. Army Engineer Research and Development Center

Prepared for Headquarters, U.S. Army Corps of Engineers

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### Preface

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The Minutes of the Executive Session of the Board on Coastal Engineering Research was prepared for the Office, Chief of Engineers, by the U.S. Army Engineer Research and Development Center's (ERDC's) Coastal and Hydraulics Laboratory (CHL). These minutes provide a record of the papers presented, the questions and comments in response to them, and the interaction among program participants and the Board.

Acknowledgments are extended to the following for overall coordination: Ms. Joan Pope from ERDC and Mr. Charles B. Chesnutt from the Institute for Water Resources. Thanks are also extended to all speakers, to Ms. Sharon L. Hanks of CHL for overall coordination and assistance in the setup of the meeting and the assembly of the information for this publication, Mr. Clay W. LaHatte of CHL for placing proceedings on the Internet, and Mr. Bill Mullen of CHL for editing these minutes. Thanks are extended also to Ms. Natalia Kornilova, Capital Reporting Company, for taking verbatim dictation of the meeting.

These minutes were reviewed and edited for technical accuracy by Dr. William R. Martin, Director of CHL.

The document is approved for publication in accordance with Public Law 166, 79th Congress, approved 31 July 1945, as supplemented by Public Law 172, 88th Congress, approved 7 November 1963.

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MERDITH W. B. TEMPLE

Major General, U.S. Army

President, Board on Coastal Engineering Research

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### Agenda

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#### Executive Session

- |             |   |
|-------------|---|
| 1015 – 1030 | Welcome and Opening Remarks<br>MG Merdith W. B. Temple  |
| 1030 – 1045 | Review of Action Items (To include location of June 2010 Meeting)<br>COL Gary E. Johnston   |
| 1045 – 1215 | Integration Framework (Presentation and Discussion)<br>Mr. W. Jeff Lillycrop  |
| 1215 – 1330 | LUNCH   |
| 1330 – 1515 | Proposed PgMP for the Sustainable Approach for Coastal and Estuarine<br>Systems (SUSTAIN) (Presentation and Discussion)<br>Dr. Beth Fleming |
| 1515 – 1530 | Break   |
| 1530 – 1600 | Update on Coastal Working Group<br>Ms. Lynn M. Bocamazo   |
| 1600 – 1730 | Update and Directions on the National Shoreline Management Study<br>Mr. Charles B. Chesnutt   |
| 1730 – 1800 | Wrap-Up   |
| 1800        | ADJOURN   |

## Attendees

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### Board Members

MG Meredith W. B. Temple, CECW-ZA  
COL Peter A. DeLuca, CENAD-DE  
BG(P) Todd T. Semonite, CESAD-DE  
Ms. Margaret A. Davidson, NOAA  
Mr. John R. Headland, Moffatt & Nichol  
Dr. Richard J. Seymour, Scripps Institute of Oceanography

### Headquarters, U.S. Army Corps of Engineers

Mr. Theodore Brown, CECW-P  
Mr. James C. Dalton, CECW-CE  
CPT Daniel A. Hayden, CECW-Z  
Ms. Rennie H. Sherman, CECW-PB  
Dr. Dimitra Syriopoulou, CERD-B  
Mr. James E. Walker, CECW-CO

### Institute for Water Resources

Mr. Charles B. Chesnutt, CEIWR-GI  
Mr. Keith D. Hofseth, CEIWR-GW  
Ms. Lynn R. Martin, CEIWR-GW

### Engineer Research and Development Center (ERDC)

Dr. James R. Houston, CEERD-ZA  
Dr. Jeffrey P. Holland, CEERD-ZB  
COL Gary E. Johnston, CEERD-ZC  
Ms. Joan Pope, CEERD-ZB-A

### Coastal & Hydraulics Laboratory, ERDC

Dr. William D. Martin, CEERD-HV-ZA  
Mr. William R. Curtis, CEERD-HV-T  
Dr. Jack E. Davis, CEERD-HV-T  
Ms. Sharon L. Hanks, CEERD-HV-Y  
Mr. W. Jeff Lillycrop, CEERD-HV-T  
Dr. Donald T. Resio, CEERD-HV-B

### Environmental Laboratory, ERDC

Dr. Elizabeth C. Fleming, CEERD-EV-Z

### Information Technology Laboratory, ERDC

Dr. Kevin M. Barry, CEERD-IV-T  
Mr. David R. Richards, CEERD-IV-T  
Mr. James T. Stinson, CEERD-IE-A  
Dr. Robert M. Wallace, CEERD-IE

### North Atlantic Division

Mr. Lawrence J. Cocchieri, CENAD-PSD-P  
Mr. Ralph LaMoglia, CENAD-PD-CID-S  
Mr. Joseph R. Vietri, CENAD-PSD-P

### New York District

Ms. Lynn M. Bocamazo, CENAN-EN-H

### Northwestern Division

BG John R. McMahon, CENWD-DE  
Mr. Brad A. Bird, CENWD-RBT

### South Atlantic Division

Mr. Kaiser E. Edmond, CESAD-MT-EW

### South Pacific Division

Mr. George W. Domurat, CESPDPDS

### Guests

Mr. Luke Durbin, SRA International, Inc.,  
Arlington, VA

### Court Reporter

Ms. Natalia Kornilova, Capital Reporting  
Company, Washington, DC

## Introduction

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The Executive Session of the Board on Coastal Engineering Research was held in Washington, DC, on 12 November 2009. It was hosted by the U.S. Army Engineer Research and Development Center (ERDC).

The Beach Erosion Board (BEB), forerunner of Board, was formed by the U.S. Army Corps of Engineers in 1930 to study beach erosion problems. In 1963, Public Law 88-172 dissolved BEB by establishing Board as an advisory board to the Corps and designating a new organization, the Coastal Engineering Research Center, now ERDC's Coastal and Hydraulics Laboratory (CHL), as the research arm of the Corps. The Board functions to review programs relating to coastal engineering research and development and to recommend areas for particular emphasis or suggest new topics for study. The Board meets twice a year for the following purposes:

- a.* Disseminate information of general interest to Corps coastal Districts or Divisions.
- b.* Obtain reports on coastal engineering projects in the host (local) District or Division; receive requests for research needs.
- c.* Provide an opportunity for state and private institutions and organizations to report on local coastal research needs, coastal studies, and new coastal engineering techniques.
- d.* Provide a general forum for public inquiry.
- e.* Provide recommendations for coastal engineering research and development.

Presentations during the Executive Session dealt with integrated framework, a proposed PgMP for the Sustainable Approach for Coastal and Estuarine Systems and updates on the Coastal Working Group and directions on the Shoreline Management Study. Documented in these minutes are summaries and/or abstracts of presentations made at the meeting, discussions following these presentations, and recommendations by the Board. Documentation and verbatim transcripts of the Executive Session are on file at ERDC's CHL.

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### Membership

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#### MILITARY MEMBERS

MG Meredith W. B. (Bo) Temple, President  
Deputy Commanding General for Civil and  
Emergency Operations  
U.S. Army Corps of Engineers  
441 G Street, NW  
Washington, DC 20314-1000  
Phone (202) 761-0002  
[Bo.Temple@usace.army.mil](mailto:Bo.Temple@usace.army.mil)

COL Peter A. DeLuca  
Commander  
U.S. Army Engineer Division, North Atlantic  
Fort Hamilton Military Community  
301 General Lee Avenue  
Brooklyn, NY 11252-6700  
Phone (718) 765-7000  
Fax (718) 491-9979  
[Peter.A.DeLuca@usace.army.mil](mailto:Peter.A.DeLuca@usace.army.mil)

BG William E. Rapp  
Commander  
U.S. Army Engineer Division, Northwestern  
P.O. Box 2870  
Portland, OR 97208-2870  
Phone (503) 808-3700  
Fax (503) 808-3706  
[William.E.Rapp@usace.army.mil](mailto:William.E.Rapp@usace.army.mil)

BG(P) Todd T. Semonite  
Commander  
U.S. Army Engineer Division, South Atlantic  
60 Forsyth Street, SW, Room 9M15  
Atlanta, GA 30303-8801  
Phone (404) 562-5006  
Fax (404) 562-5002  
[Todd.T.Semonite@usace.army.mil](mailto:Todd.T.Semonite@usace.army.mil)

#### CIVILIAN MEMBERS

Ms. Margaret A. Davidson, J.D.  
Director, Coastal Services Center  
NOAA  
2234 S. Hobson Avenue  
Charleston, SC 29405  
Phone (843) 740-1220  
Fax (843) 740-1224

[Margaret.davidson@noaa.gov](mailto:Margaret.davidson@noaa.gov)

Mr. John R. Headland  
Moffatt & Nichol Engineers  
104 West 40<sup>th</sup> Street, 14<sup>th</sup> Floor  
New York, NY 10018  
Phone (212) 768-7454  
Fax (212) 768-7936  
[jheadland@moffattnichol.com](mailto:jheadland@moffattnichol.com)

Dr. Richard J. Seymour  
Scripps Institution of Oceanography  
9500 Gilman Drive, Mail Code 0214  
La Jolla, CA 92093-0214  
Phone (858) 534-2561  
Fax (858) 455-5575  
[rseymour@ucsd.edu](mailto:rseymour@ucsd.edu)

#### EXECUTIVE SECRETARY

COL Gary E. Johnston  
Commander  
U.S. Army Engineer Research and  
Development Center  
Waterways Experiment Station  
3909 Halls Ferry Road  
Vicksburg, MS 39180-6199  
Phone (601) 634-2513  
Fax (601) 634-2388  
[Gary.E.Johnston@usace.army.mil](mailto:Gary.E.Johnston@usace.army.mil)

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### Summary

COL Gary E. Johnston, Designated Federal Official, called the meeting to order. MG Merdith W. B. Temple, President of the Board on Coastal Engineering Research, welcomed all participants to the meeting, introduced the Board members, thanked those who organized the meeting and looked forward to a productive meeting and asked all to introduce themselves. He stated the objective of this meeting is to start a national interagency data management framework that supports Corps implementation of a systems approach within the coastal environment informed by both national, regional, and local interest and experiences. He further stated that cooperation with the National Oceanographic and Atmospheric Administration through the Integrated Ocean Observing System (IOOS) program and with others will help us improve our data collection efforts, reference waves and other critical coastal physical phenomenon. He noted that the goal of the meeting, which is to examine data needs to support systems models and decision making within a holistic systems approach to coastal protection and management. He stated that this will help shape the data management framework in a way that is most useful to us all.

COL Johnston reviewed the action items from the meeting in San Diego, CA, which included:

1. To present the way ahead to develop a Data Management Framework linking data, models, developing solutions.
2. Provide the Board with a draft interim report on the National Shoreline Management Study.
3. Layout the SUSTAIN PDT and PgMP for integrating watershed and coastal models.
4. Determine location for the Spring Board meeting with the theme of Climate Change. It was determined that the full meeting would be hosted by the North Atlantic Division in north New Jersey. A specific location would be determined.

Mr. Jeff Lillycrop provided a presentation on Integrated Framework using the IOOS data model that can be applied for coastal navigation data. This would be a pilot project that can serve as a model for other business areas.

MG Temple noted that we have all kinds of data in the military environment, but we need priorities of a data management plan to decide what data needs to be collected. This will also help us to leverage data from other agencies.

Mr. Headland asked who the end user was. Mr. Lillycrop answered districts, divisions, stakeholders, resource agencies, industry, and academia. He added that if we do not do this nationally, then districts invent it individually. Ms. Davidson noted that this will make it more efficient and easier for partners to access. Mr. Lillycrop added that this would be a public site.

Dr. Robert Wallace noted that this was a two-year funded program (\$2M for the first fiscal year and \$2M for the second).



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Summary comments from MG Temple included:

1. How much will this pilot effort cost if it wasn't so leveraged (include in PgMP what this would have cost if done from scratch).
2. What is the minimum necessary to keep this moving forward considering reduced budgets and think about options for funding over more extended periods.
3. Look at internal and external funding sources.
4. How much would be need to develop this for other functions?
5. Provide draft PgMP and IPlan to Board at next meeting.
6. Look at option where IOOS can work with data management strategy.

Dr. Beth Fleming presented the Proposed PgMP for the Sustainable Approach for Coastal and Estuarine Systems (SUSTAIN). A general question and answer session followed the presentation with summary comments from MG Temple. They included:

1. Diversify the PDT with other USACE, CWG and external folks.
2. Data management aspect has to include data acquisition piece and make sure it is tied into Mr. Lillycrop's effort.
3. By corporate coastal models we mean one coastal model system framework.
4. There is not a major technical problem with linking coastal with inland.
5. Reach out to others (USGS, NOAA, etc.).
6. Look at funding options.
7. Send Board an updated PgMP and IPlan that includes options and levels of funding and priorities of what to focus on and products that would be produced.
8. Look at lessons learned from SWWRP and build on that.
9. Recommendations to go forward to Chief will be developed at next meeting.
10. Tie in with business lines to reduce the budget gap.

Mr. Charles B. Chesnutt presented an update and directions on the National Shoreline Management Study. The early estimate for total cost is \$7m. They have expended \$2.813m from FY02 to FY09. FY10 has \$691k. The draft report will be ready for review at the next meeting. The complete report should be to congress in CY 2010. MG Temple commented that this is an interim report to try to meet congressional intent. We need to get input from sister agencies as well. This has potential to change some of our authorities. MG Temple stated to get this done and use it to influence WRDA and future policy. MG Temple agreed with BG(P) Semonite's comment to make sure District work together in state by state reports.

Ms. Lynn Bocamazo was asked to give an update on the Coastal Working Group (CWG). The CWG is under the navigation and the flood risk gateways and it will include monthly presentations and

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communications for the CWG team. Mr. Headland commended the CWG team as a good tie in across the country, and MG Temple added that this is about building linkages. It was noted that there are about 300 users inside less than 2,000 outside the Corps, including dredgers, who could use this.

COL Johnston reviewed the following action items:

1. Spring/summer meeting to have Climate Change as its central theme. Mr. Chesnutt and Ms. Pope will work the agenda.

2. Present SUSTAIN and Data Management PgMP and IPlan at next Board meeting Executive Session.

3. National Shoreline Management Study interim report due to Board to review.

COL Johnston adjourned the Executive Session.